

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D205-523 REV. F,
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
ICA-D205-523 REV. 1 OR LATER APPROVED REVISIONS

REF. TCCA STC: SH96-90 REF. ITALY STC: CS-099
REF. FAA STC: SR00511NY REF. BRAZIL STC: 2010S10-07
REF. FAA STC: SR00512NY REF. CHINA VSTC: VSTC0683
REF. FAA STC: SR00513NY REF. JAPAN STC: STC-134-HQT

1.0 PURPOSE

This Dart Service Instruction (DSI) provides an alternative D3011-1B Rappel Slide Bar in lieu of the D3011-1 Rappel Slide Bar. The D3011-1B Rappel Slide Bar allows for the mounting holes to be transferred from the aircraft studs onto the bar mounting surface. The alternative D205-523-013B Heli-Rappel Installation is to be installed on the cabin roof of the Bell 205/212/214/412 aircraft. The D205-523-013B provides the same features as the D205-523-013, and is a safe and secure system for inserting personnel into the field from a hover position up to a maximum of 30Kts. The alternative D205-523-013B Heli-Rappel Installation may be installed on either side of the aircraft and is capable of sustaining up to a 500 lb (227 Kg) working load.


2.0 PROCEDURE

This procedure should be carried out in conjunction with the procedure in Section 3 of Installation Instructions D205-523 using D3011-1B Rappel Slide Bar in lieu of the D3011-1 Rappel Slide Bar.


To transfer mounting holes into the D3011-1B Rappel Slide Bar from the aircraft studs, use the following procedure:

- 2.1 Install D2224 Rappel Anchor per D205-523, Step 1-2.
- 2.2 Position the D3011-1B Rappel Slide Bar per Figure 1 and 2 of this DSI.
- 2.3 Mark and transfer the Fwd/Aft center of the mounting studs onto the each upper flat surface of the Slide Bar. **Note:** Slide bar must be positioned to maintain a minimum edge distance of 0.580" for each hole (ie. the center of each hole must be no closer than 0.580" of the surface edge).
- 2.4 Drill through $\varnothing 0.386$ " (W drill) at the Fwd/Aft center mark on the flat surface of the Slide Bar while maintaining the minimum edge distance for each hole. Deburr holes.
- 2.5 Touch up holes with Alodine 1200/1201 per MIL-C-5541 and prime/paint per Aircraft Maintenance Manual.
- 2.6 Install the D205-523-043B Rappel Slide Bar Assembly, picking up on existing studs from Step 2.2 as shown in Figure 3 of this DSI.
- 2.7 Maintain the D205-523-013B kit per ICA-D205-523 and operate per FMS-D205-523, in lieu of the D205-523-013 kit.
- 2.8 Update the Aircraft Log Book to indicate installation of the D205-523-013B Heli-Rappel Installation and adjust Weight and Balance Record for the aircraft with the weight and balance data provided in Section 3.0 of this document.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
C. PROVENCAL (DE # 03)
DATE: 18.09.18
CERT. NO.: SH96-90
ISSUE NO.: 3

APPROVED

A	NEW ISSUE; REF CIR18-122	RF	18.09.18
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9810	SHEET 1 OF 4
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
3.0 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D205-523-013B Heli-Rappel Installation	3.5 lb 1.59 kg	+/- 34.5 in +/- 0.88 m	+/- 120.8 in-lb +/- 1.39 m-kG	116.8 in 2.97 m	408.8 in-lb 4.72 m-kG

4.0 PARTS LIST

QTY -013B	QTY -043B	PART NUMBER	DESCRIPTION
X		D205-523-013B	HELI-RAPPEL INSTALLATION
	X	D205-523-043B	SLIDE BAR ASSEMBLY
	2	33116	STUD FITTING
1		D2224	RAPPEL ANCHOR
2		D2229	DOUBLER
	1	D3011-1B	RAPPEL SLIDE BAR
	2	D3012-1	DECAL
	2	D3012-3	DECAL
	2	D3012-5	DECAL
4		AN5-14A	BOLT
4		MS21042L5	NUT (OR MS21042-5)
	2	MS21042L6	NUT (OR MS21042-6)
8		NAS1149D0563J	WASHER
	2	NAS1149D0663J	WASHER

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SHEET 2 OF 4

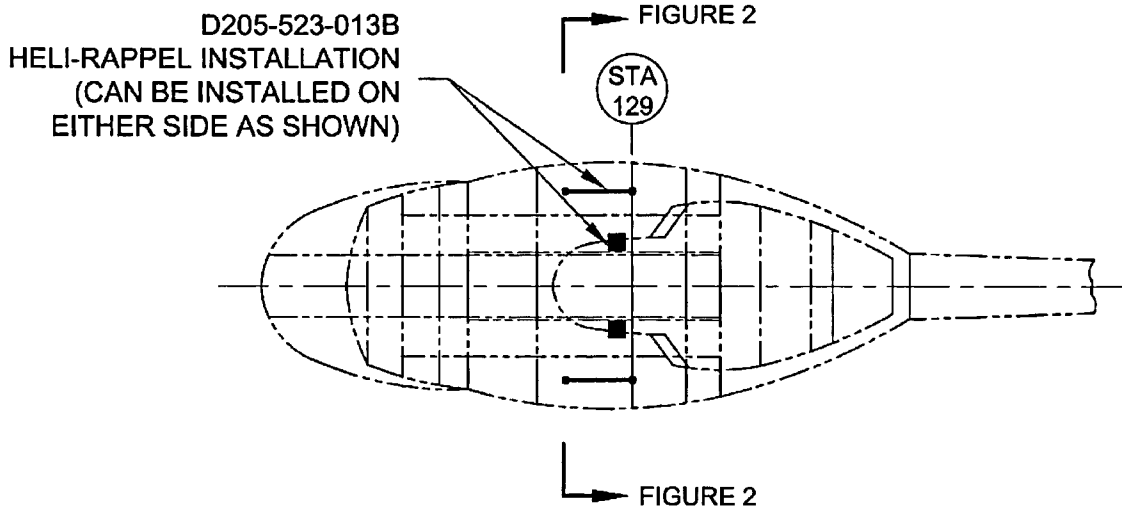


FIGURE 1: Location of the D205-523-013B Heli-Rappel Installation

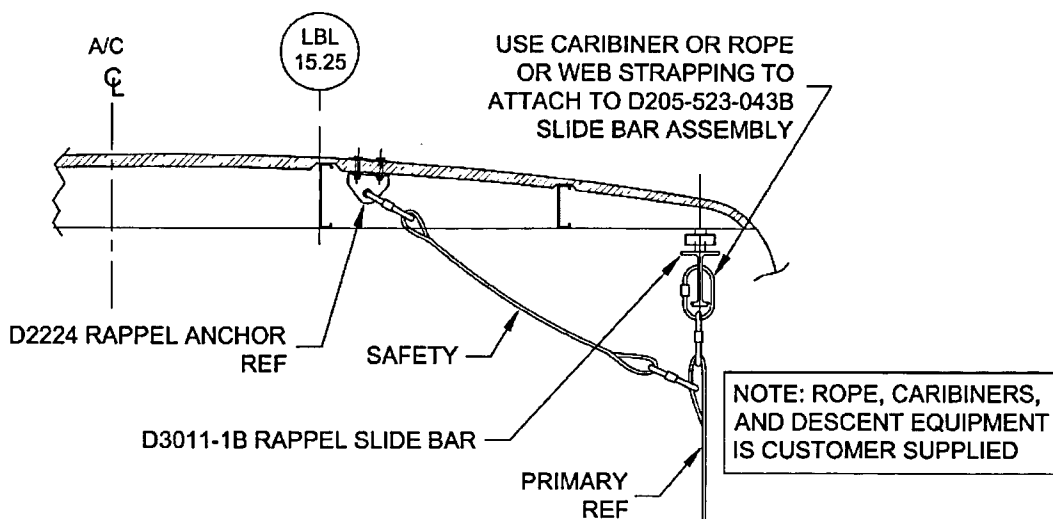


FIGURE 2: Location of the D205-523-013B Heli-Rappel Installation
LH Installation Shown, RH Opposite
(View Looking Aft Section Rotated 90° CCW)

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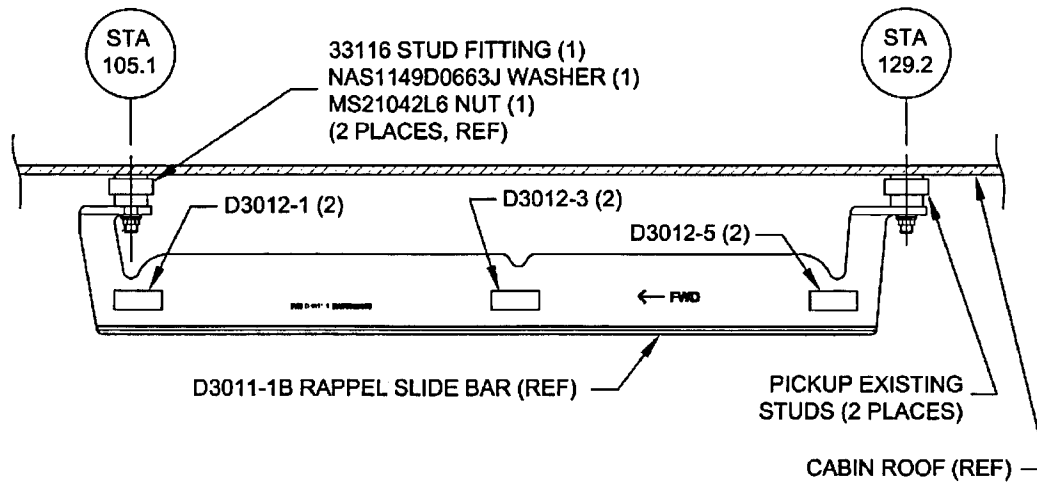


FIGURE 3: Installation of D205-523-043B Slide Bar Assembly
(View Looking Inboard)

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